

## Claims

1. Device for preventing bruxism, comprising a carrier intended for receiving in a mouth of a user, which carrier comprises at least a part of an electronic bio-feedback system, characterized in that the carrier comprises a jaw-shaped body which is adapted to lie against at least a part of an outer side of a jaw of the user and therein leave a chewing or cutting surface at least substantially clear.
2. Device as claimed in claim 1, characterized in that the carrier is manufactured at least substantially from a thermoplastic material, in particular a synthetic material.
3. Device as claimed in claim 2, characterized in that the carrier is permanently deformable at an increased temperature below about 100°C.
4. Device as claimed in one or more of the foregoing claims, characterized in that the carrier is provided with at least one anchoring member which extends from the jaw-shaped body and which is able and adapted to enter into an at least temporary fixation with a jaw element of a user.
5. Device as claimed in claim 4, characterized in that the anchoring member comprises an electrically conductive electrode of the bio-feedback system.
6. Device as claimed in claim 4 or 5, characterized in that the anchoring member comprises an electrically conductive signal sensor of the bio-feedback system.
7. Device as claimed in claim 4, 5 or 6, characterized in that the anchoring member comprises an electrically conductive wire with a solid core of a bio-compatible metal.
8. Device as claimed in claim 1, 2 or 3, characterized in that the jaw-shaped body comprises an outer shell in which at least a part of the bio-feedback system is

-14-

accommodated, and an inner shell which is formed at least close-fittingly in accordance with at least the part of the jaw of the user.

5 9. Device as claimed in claim 8, characterized in that the bio-feedback system comprises at least one electrically conductive electrode which extends from the outer shell and lies against the jaw of the user.

10 10. Device as claimed in claim 9, characterized in that the electrode has a resilient construction so as to lie resiliently against the jaw of the user.

11. Device as claimed in one or more of the foregoing claims, characterized in that the carrier is provided with a first part of the bio-feedback system, and a second part of the bio-feedback system is placed outside the mouth, wherein both said parts are mutually connected by means of at least one electronic connection.

15 12. Device as claimed in claim 11, characterized in that the electronic connection comprises a connecting cable which extends from the carrier on an outer side of the teeth.

20 13. Device as claimed in claim 11, characterized in that the electronic connection is wireless.

25 14. Device as claimed in one or more of the foregoing claims, characterized in that the carrier is provided with an electric power source which at least during operation provides an electric power supply to at least the part of the bio-feedback system received in the carrier.

30 15. Device as claimed in claim 14, characterized in that the power source comprises at least one wirelessly rechargeable battery which is arranged in liquid-tight manner in the carrier.

-15-

16. Device as claimed in claim 14, characterized in that the power source comprises conversion means which are able and adapted to convert a jaw movement of the user into electricity.

- 5 17. Device as claimed in one or more of the foregoing claims, characterized in that at least a part thereof is permanently connected to a jaw of the user, and in particular is integrated into a set of teeth of the user.